

SONY®

White paper

July 2016



Xperia™ C4
E5303/E5306/E5353

Purpose of this document

Sony Mobile Communications product White papers are intended to give an overview of a product and provide details in relevant areas of technology.

NOTE: All illustrations, screen images, and elements are for reference only and subject to change at any time without prior notice.

Document history

Version

May 2015	First released version	Version 1
June 2015	Second released version	Version 2
August 2015	Third released version	Version 3
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Sony Mobile Developer World

For the latest technical documentation and development tools, go to www.sonymobile.com/developer.

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Product overview

Master of the selfie

PROselfie Octa-core smartphone with Full HD display

The Xperia™ C4 is a PROselfie Octa-core smartphone with Full HD display and a powerful processor. It's got just what it takes if you're looking for high-quality selfie stills and videos. The 5MP front camera is equipped with the qualities of a main smartphone camera and lets you get great pictures in any situation, indoors or outdoors, with friends, day or night. The experience is further enhanced by an impressive large and crisp display powered by Sony TV technologies. Meanwhile, SteadyShot™ technology in the front camera compensates for shaking and gives all your PROselfies the sharpness they deserve. The front camera also lets you add sound and fun effects such as AR mask to your selfie stills. And if that's not enough to add a unique edge to your selfie, use the Style Portrait feature to add a retro, vampire, mystery blue or other style and share it.

Only the best

Sony's latest digital imaging technology features in both the front (5MP) and main camera (13MP) to give you extraordinary images. Exmor R™ and HDR are integrated into both cameras, giving you the best pictures in any lighting conditions.

The Xperia™ C4 front camera doesn't just see you. It utilises Superior auto to analyse and adjust settings automatically from among 13 scenes and 4 modes. So you get the best picture possible. No more blurry selfie videos.

Multimedia enhanced

Watching movies on your smartphone has never been better. The Xperia™ C4 has a 5.5" Full HD display with IPS for a wide view experience. Leveraging on Sony TV technologies, the Xperia™ C4 features both Mobile BRAVIA® Engine 2 and Super vivid-mode, so you can enjoy movies in amazing clarity and colour brightness. The frame around the display is minimal to enhance the viewing experience, and the sound quality is excellent with or without headphones.

Superior multitasking

Eight active processor cores give you all the performance you need for a busy and fun multitasking lifestyle. To support your entertainment, networking and other demands, the Xperia™ C4 has a large 2600mAh battery. Doze & App standby is there to help you take control of how your Xperia™ C4 battery power is used and what it is used for.

Product specifications

Operating system	Google™ Android™ 6.0 (Marshmallow)
Processor	1.7 GHz Mediatek MT6752 Octa Core
GPU	ARM MaliT760-MP2
Size	150.3 x 77.4 x 7.9 mm
Weight	147 grams
Available colours	Black White Mint
SIM card	Nano SIM
Main screen	
Colours	16,777,216 colour TFT
Resolution	1920x1080 pixels
Size (diagonal)	5.5 inches
Scratch-resistant	Yes – Front with minimum pencil hardness > 9H
Input mechanisms	
Text input	On-screen QWERTY keyboard, 12-key input, Handwriting
Touch screen	Capacitive
Multi-touch capability	Up to 10 fingers supported
Memory	
RAM	2 GB
Flash memory	Up to 16 GB*
Internal Storage	Up to 9.6 GB*
Expansion slot	microSD™ card, up to 200 GB
Memory card speed class	Class 10**
Memory card UHS speed class	Class 1**
Main Camera	
Camera resolution	13 MP
Exmor	Yes – Exmor RS
Digital zoom	4x
Video recording	Yes – Full HD 1080p
Auto Focus	Yes
Photo Flash	Yes

Technologies in detail

The information presented in this section is a general overview of the technology incorporated into the product. However, hardware and software levels of compliance to standards and specifications vary between products and markets. For more information, contact Sony Mobile Developer World or the relevant Sony representative.

Accessibility and Usability

Accessibility and Usability	
Talkback*	Yes, default is “off”
Captions*	Yes, default is “off”
Magnifications gestures*	Yes, default is “off”
Large Text*	Yes, default is “Not checked”
High Contrast Text*	Yes, default is “Not checked”
Power button ends call*	Yes, default is “Not checked”
Auto-rotation*	Yes, default is “checked”
Speak Passwords*	Yes, default is “Not checked”
Accessibility Shortcuts*	Yes, default is “off”
Text – to – Speech*	Yes
Touch and hold delay*	Yes, default is “Short”
Color Inversion*	Yes, default is “off”
Color correction*	Yes, default is “off”
Hearing Aid Compatibility (HAC)	Yes
Teletypewriter (TTY)**	Yes (E5306)

* This feature is subject to change in future releases of Google™ Android™.

** The TTY feature is for deaf or hearing-impaired users. Only the E5306 model supports TTY.

Device-to-device communications (local)

Bluetooth® wireless technology

Bluetooth® profiles supported	Advanced Audio Distribution Profile v1.2 Audio/Video Control Transport Protocol Profiles v1.4 Audio/Visual Distribution Profile v1.3 Audio/Video Remote Control Profile v1.3 Generic Access Profile General Audio/Video Distribution Profile v1.2 Generic Object Exchange Profile v1.1 Health Device Profile v1.0 Hands-Free Profile v1.6 Human Interface Device Profile v1.0 Headset Profile v1.2 Message Access Profile v1.0 Object Push Profile v1.1 Personal Area Networking Profile v1.0 PhoneBook Access Profile v1.1 SIM Access Profile v1.1 Service Discovery Application Profile v(LocDev) Serial Port Profile v(DevA DevB) GATT Client GATT Server Find Me Profile v1.0 HID over GATT Profile v1.0 Proximity Profile v1.0 Bluetooth® proprietary audio codec compression algorithms
Core version and supported core features	BT 4.1 + HS
Other supported features	aptX® CD quality audio streaming over Bluetooth® connection
Connectable devices	Products support at least one of the Bluetooth® profiles listed above. Bluetooth® 4.1 accessories generally require installation of a supporting application.

More information:

www.sonymobile.com/developer

www.bluetooth.com

Wi-Fi®

Supported standards	IEEE 802.11a/b/g/n and Wi-Fi® Wi-Fi Direct®, Wi-Fi Protected Setup™, Wi-Fi CERTIFIED Miracast®
Connectable devices	Wi-Fi® access points Wi-Fi Direct® compatible devices
Frequency band	2.4 GHz / 5 GHz
Data transfer rate	Up to 150 Mbit/s
Security	Open Authentication Shared Authentication EAP-SIM EAP-AKA EAP-TLS EAP-TTLS/MSCHAPv2 PEAPv0/EAP-MSCHAPv2 PEAPv1/EAP-GTC WPA Personal and WPA2 Personal WPA Enterprise and WPA2 Enterprise
Encryption	WEP 64 bit, WEP 128 bit, TKIP and CCMP (AES)
Power save	WMM®-UAPSD
QoS	WMM®, WMM® Power Save

In reality, “sdcard” is a “symbolic link” to “/data/media”. However, from inside an Android application, “/sdcard” can still be used. For example, you can use “sdcard/DCIM/100Android” to find all camera images. The continued use of “/sdcard” to access the content area ensures compatibility across different products and Android releases in this regard.

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